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0213-5470USF/宜文/chou/robert

What Is Claimed Is:

- 1 1. An image processing device, suitable for displaying the
2 static digital image on the image display device,
3 comprising:
4 a compressing device used to compress the static digital
5 image using the wavelet transform to produce the first
6 compressed image data file;
7 a memory device used to store the compressed image data file;
8 a processing device used to calculate and compare the storage
9 space left in the memory device, the storage space used in
10 the memory device and the size of the first compressed image
11 data file, when the storage space left in the memory device
12 is less than the size of the first compressed image data file,
13 part of the compressed image data files stored in the memory
14 device is eliminated to store the first compressed image data
15 file, otherwise the first compressed image data file is
16 directly stored in the memory device; and
17 a decompressing device used to decompress the first
18 compressed image data file to produce image data file, and
19 display it on the image display device.
- 1 2. The image processing device as claimed in claim 1, wherein
2 the size of the eliminated part of the image data files is
3 equally divided among the compressed image data files stored
4 in the memory device.
- 1 3. The image processing device as claimed in claim 2, wherein
2 the eliminated part of the image data files is the end portion

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3 of the compressed image data files stored in the memory
4 device.

1 4. A digital camera, comprising:

2 a static digital image extracting device, used to extract
3 static digital images and output;

4 a compressing device, used to compress the static digital
5 image using a wavelet transform to produce a first compressed
6 image data file;

7 a memory card, used to store the first compressed image data
8 file;

9 a central processing unit, used to calculate and compare the
10 storage space left in the memory card, the storage space used
11 and the first compressed image data file, when the storage
12 space left in the memory card is less than the first
13 compressed image data file, part of the compressed image data
14 files in the memory card is eliminated to store the first
15 compressed image data file, otherwise the first compressed
16 image data file is directly stored in the memory card;

17 a decompressing device, used to decompress the first
18 compressed image data file to produce the image data file;
19 and

20 an image display device used to display the image data file.

1 5. The digital camera as claimed in claim 4, wherein the size
2 of the eliminated part of the compressed image data files
3 in the memory card is equally divided among the compressed
4 image data files stored in the memory card.

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1 6. The digital camera as claimed in claim 4, wherein the
2 eliminated part of the compressed image data files is the
3 end portion of each of the individual compressed image data
4 files stored in the memory card.

1 7. The digital camera as claimed in claim 6, wherein the static
2 digital image extracting device is a camera lens.

1 8. The digital camera as claimed in claim 7, wherein the image
2 display device is a liquid crystal display.

1 9. The digital camera as claimed in claim 7, wherein the image
2 display device is a computer.